

Rozenfeld
10/747,761

In the Claims

1. (currently amended) A system for providing a moving step for stairs, comprising:
- a) a stairway comprising for providing a plurality of stairs from a lower level to an upper level, said stairs having a first step having a top surface above ~~wherein said top surface of said first step is disposed contiguous with and at the same~~ elevation of said lower level, said stairs having a top step having a top surface wherein said top surface of said top step is disposed contiguous with and at the same elevation of said upper level, said first step being disposed at the front of said stairway, and, a handrail disposed on ~~[[a]]~~ first and second sides side of said stairway;
 - b) a movable step having a vertical riser and a top surface and a first and second end, said movable step having clear surfaces without any parts thereof which are separately adjustable, said movable step extending the full width of said stairway and being disposed on said lower level in a first position in on said front of said first step so that said top surface of said movable step is at the same elevation as said top surface of said first step, said movable step in the first position being flush with the first step for maintaining a low profile blending in with surrounding conditions, and wherein said movable step is movable to a second position so that said top surface of said movable step is at the same elevation as said top surface of said top step;
 - c) means for moving said movable step whereby the movable step is moved from said first position to said second position; ~~[[and,]]~~
 - d) means for controlling said movable step whereby the operation of the movable step as it moves back and forth between the first position and the second position is controlled by a user~~[[.]]~~ ; and
 - e) said controlling means including an auto return switch for automatically returning said movable step from said second position to said first position

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upon a user departing said movable step at said second position at the upper level, said movable step appearing as a stationary step of said stairway when said movable step is not in use.

2. (currently amended) The system of Claim 1, wherein said means for moving said movable step, comprises:

a) a stringer with a flat wall surface facing said stairs being disposed on said first and second side of said stairway, a track being disposed in said stringer, said stringer being elongated and extending from said lower level to said upper level; and,

b) a plurality of casters disposed on each of said first and second ends of said movable steps, wherein said casters travel in said tracks so as to allow said movable step to move from said first position to said second position.

3. (currently amended) The system of Claim 2, wherein said means for moving said movable step further comprises:

a) an electric motor being located under said stairway at a lower end thereof adapted to rotate [[a]] cable spools located at opposite ends of said stairway spool;

b) a cable for each spool having a first end connected to each said cable spool and a second end of each cable connected to opposite ends of said movable step; and,

c) ~~at least one pulley~~ pulleys being disposed adjacent to ends ~~said first end~~ of said top step, wherein each said cable travels on a said pulley so that said movable step moves from said first to said second position in response to said cable spools spool being rotated by said motor~~[[.]]~~ ; and

d) a chain and sprocket drive mechanism for connecting said motor to said cable spools to permit the cable spools to turn in response to the motor.

4-5. (canceled)

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6. (currently amended) The system of Claim 3 [[5]], wherein said means for controlling said movable step comprises an ascension switch for controlling the ascent of said movable step.

7. (original) The system of Claim 6, wherein said means for controlling said movable step comprises a descension switch for controlling the descent of said movable step.

8. (original) The system of Claim 7, wherein said means for controlling said movable step comprises a pressure sensing switch being disposed on said top surface of said movable step so that said movable step moves only while a user is standing on said movable step.

9. (original) The system of Claim 8, wherein said means for controlling said movable step comprises a resistance sensor being disposed on said first and second handrail so that said movable step moves only while a user is grasping said first and second handrail.

10. (original) The system of Claim 9, wherein said means for controlling said movable step comprises a step call-up switch so that said movable step can be called-up to said upper level when no user is standing on said movable step or grasping said first and second handrail.

11-12. (canceled)

13. (currently amended) The system of Claim 10 [[12]], wherein said means for controlling said movable step comprises a microcontroller for controlling said ascension switch, said descension switch, said pressure sensing switch, said resistance sensor, said call-up switch, said auto return switch, and said upper and lower stop switches to permit the movable step to be controlled by a user.